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Topic Organic Chemistry II. A continuation of Chem 211 and completing a full-year course in organic chemistry, primarily for students interested in the chemistry major or in chemical research.

Prerequisites Chem 211 or completion of a comparable one-semester course in organic chemistry.

Co-enrollment in Chem 365 (organic laboratory module, previously Chem 232) is expected. See the instructor if you do not plan to enroll in Chem 232.

Course Meetings Tu/Th, 10:50–11:50 and Friday 1–1:50 in SS 337. Topical readings from the textbook will be assigned in advance of course meetings, and it is expected that students will come to class having read assigned readings.

OWL-Space Selected course materials will be available online (owlspace.rice.edu).

Course materials This course will continue with the book used in Chem 211: *Organic Chemistry*, 5th Ed. by Marc Loudon (ISBN 9780981519432).

Access to a good modeling kit can be extremely helpful to your understanding of organic chemistry; they remain useful in an era of ubiquitous computational modeling. The model kits used in Chem 211 will be sufficient. If you plan to study synthetic chemistry in the future, you should also consider a more useful model kit, such as the HGS "5000 Biochemistry Set," available directly from HGS at http://www.maruzenusa.com/hgs/ (listed as "HGS Bestseller" on the website).

Requirements and Grades

problem sets (9)	100 pts
exams (3)	150 pts
final exam	150 pts
participation, reading quizzes	50 pts
TOTAL	450 pts

Exams and Quizzes There will be three midterm exams, held during normal class meetings, and a final exam. All exams will be open notes. You may bring whatever paper resources (books, notes, old homework, etc.) you wish, but no electronic aids (phone, computer, etc.) may be used. The final exam will be scheduled by the registrar. Brief reading quizzes (closed book) will be administered at the start of some lecture periods. A plastic molecular model kit is also permitted in all quizzes and exams.

Exam regrades You have one week from the time that an exam is handed back to request a regrade for an incorrectly graded exam. If you feel there has been an error in grading you should explain your request on a separate piece of paper and staple

this to your original and unaltered exam and submit them to the course instructor. *Only exams written in non-erasable ink may be submitted for regrade. Exams with any markings, erasures, or other alterations of any kind added after initial grading may not be submitted for a regrade.*

Problem Sets Problem sets will not be rigorously graded for accuracy; credit is primarily based on completion and evidence of thorough effort. Keeping in mind that problem sets are an aid to your understanding of the material, you are welcome to work with classmates. I am aware that solutions to most problems are available through web resources; you will learn the most by avoiding this temptation and by working through problems yourself.

Honor Code The Rice University Honor Code applies to all work conducted in this class. Take-home exams are assumed to be the sole work of the student. Students may work collaboratively on homework assignments.

Disabilities If you have a documented disability that will impact your work in this class, please contact the course instructor to discuss your needs. Additionally, you will need to register with the Disability Support Services Office in the Allen Center.

Chem 320 **Spring 2015**

Tentative Schedule			Lecture Topic		week
Tue	Jan 13	class #1	Ch 14: alkynes		1
Thu	Jan 15	class #2		**PS1 out**	
Fri	Jan 16	class #3			
Tue	Jan 20	class #4	Ch 15: resonance&aromat	**PS1 in; PS2 out**	2
Thu	Jan 22	class #5	Ch 16: EAS		
Fri	Jan 23	class #6			
Tue	Jan 27	class #7		**PS2 in, PS3 out**	3
Thu	Jan 29	class #8	Ch 17: allylic, benzylic rxns		
Fri	Jan 30	class #9			
Tue	Feb 3	class #10	Ch 19: C=O addn	**PS3 in, Practice Exam out**	4
Thu	Feb 5	class #11			
Fri	Feb 6	class #12			
Tue	Feb 10	exam 1, in-class		**PS4 out**	5
Thu	Feb 12	class #13			
Fri	Feb 13	class #14			
Tue	Feb 17	class #15	Ch 20: acids	**PS4 in, PS5 out**	6
Thu	Feb 19	class #16	Ch 21: more acids		
Fri	Feb 20	class #17			
Tue	Feb 24	class #18		**PS5 in, PS6 out**	7
Thu	Feb 26	class #19	Ch 22: enolates		
Fri	Feb 27	class #20			
	Mar 2–6	Spring Break		----------	
Tue	Mar 10	class #21			8
Thu	Mar 12	class #22		**PS6 in, Practice Exam out**	
Fri	Mar 13	class #23			
Tue	Mar 17	exam 2, in-class			9
Thu	Mar 19	class #24		**PS 7 out**	
Fri	Mar 20	class #25			
Tue	Mar 24	class #26	Ch 23: amines		10
Thu	Mar 26	class #27			
Fri	Mar 27	class #28			
Tue	Mar 31	class #29		**PS7 in, PS8 out**	11
	Apr 2–3	Midterm recess			
Tue	Apr 7	class #30	Ch 27: pericyclic rxns		12
Thu	Apr 9	class #31		**PS8 in, Practice Exam out**	
Fri	Apr 10	class #32			
Tue	Apr 14	class #33			13
Thu	Apr 16	exam 3, in-class			
Fri	Apr 17	class #34		**PS9 out**	
Tue	Apr 21	class #35	Ch 26: peptides		14
Thu	Apr 23	class #36			
Fri	Apr 24	class #37		**PS9 in, Final Practice Out**	
	Apr 29–May 6	Final Exams			